

WHAT IS CLAIMED IS:

1. A coupling structure for a flow control valve, the coupling structure comprising:

5 a fitting portion having a male thread that is formed on a peripheral surface of the flow control valve;

a coupled member having a coupling hole to receive the flow control valve; and

10 a cylindrical elastic sealing member engaged with the coupling hole to seal the space between the flow control valve and the coupling hole, wherein the elastic sealing member has an inner surface defining a mounting hole in which the fitting portion is fitted, and a female thread is formed on the inner surface, the female thread being mated with the
15 male thread of the fitting portion.

2. The coupling structure according to claim 1, wherein the elastic sealing member and the coupled member hole each include a rotation restricting structure that holds
20 the elastic sealing member and prevents the elastic sealing member from rotating in the coupling hole when the male thread is mated with the female thread.

3. The coupling structure according to claim 1, wherein the elastic sealing member has a pressed portion
25 formed on the inner surface defining the mounting hole, and the pressed portion is pressed by the fitting portion to radially expand the elastic sealing member when the fitting portion is fitted in the mounting hole.

30

4. The coupling structure according to claim 3, wherein the elastic sealing member and the coupled member hole each include a rotation restricting structure that holds

the elastic sealing member and prevents the elastic sealing member from rotating in the coupling hole when the male thread is mated with the female thread.

5 5. The coupling structure according to claim 4,
 wherein the coupled member includes a front surface and a
 rear surface, the elastic sealing member being engaged with
 the coupled member from the front surface, and wherein the
10 rotation restricting structure has a stopper socket, which is
 arranged adjacent to the coupling hole, and a stopper, which
 projects from the elastic sealing member, the stopper being
 received in the stopper socket.

15 6. The coupling structure according to claim 5,
 wherein the flow control valve has a main body formed from
 synthetic resin, and the main body has a rotating portion for
 rotating the male thread and mating the male thread with the
 female thread.

20 7. The coupling structure according to claim 6,
 wherein the flow control valve is a blowby gas returning
 apparatus flow control valve incorporated in an internal
 combustion engine.

25 8. The coupling structure according to claim 7,
 wherein the main body has a hose connector for connecting a
 hose, and the rotating portion is arranged in the hose
 connector.

30 9. The coupling structure according to claim 1,
 wherein the flow control valve has a main body formed from
 synthetic resin, and the main body has a rotating portion for
 rotating the male thread and mating the male thread with the

female thread.

10. The coupling structure according to claim 1,
wherein the flow control valve is a blowby gas returning
5 apparatus flow control valve incorporated in an internal
combustion engine.

11. A flow control valve received in a predetermined
coupling hole, the valve comprising:

10 a fitting portion engaged with the coupling hole and
having a peripheral surface, wherein a male thread is formed
on the peripheral surface; and

a main body connected to the fitting portion and formed
from synthetic resin.

12. The flow control valve according to claim 11,
wherein the flow control valve is a blowby gas returning
apparatus flow control valve incorporated in an internal
combustion engine.

13. The flow control valve according to claim 11,
wherein the main body has a rotating portion for rotating the
fitting portion when engaging the flow control valve with the
coupling hole.

14. The flow control valve according to claim 13,
wherein the flow control valve is a blowby gas returning
apparatus flow control valve incorporated in an internal
combustion engine.

15. A cylindrical elastic sealing member formed from a
rubber material, wherein the elastic sealing member receives
a fitting body, the elastic sealing member comprising:

a mounting hole for receiving the fitting body; and
a pressed portion formed on a inner surface defining the
mounting hole and pressed by the fitting body, wherein the
pressed portion radially expands the elastic sealing member
5 when pressed by the fitting body.